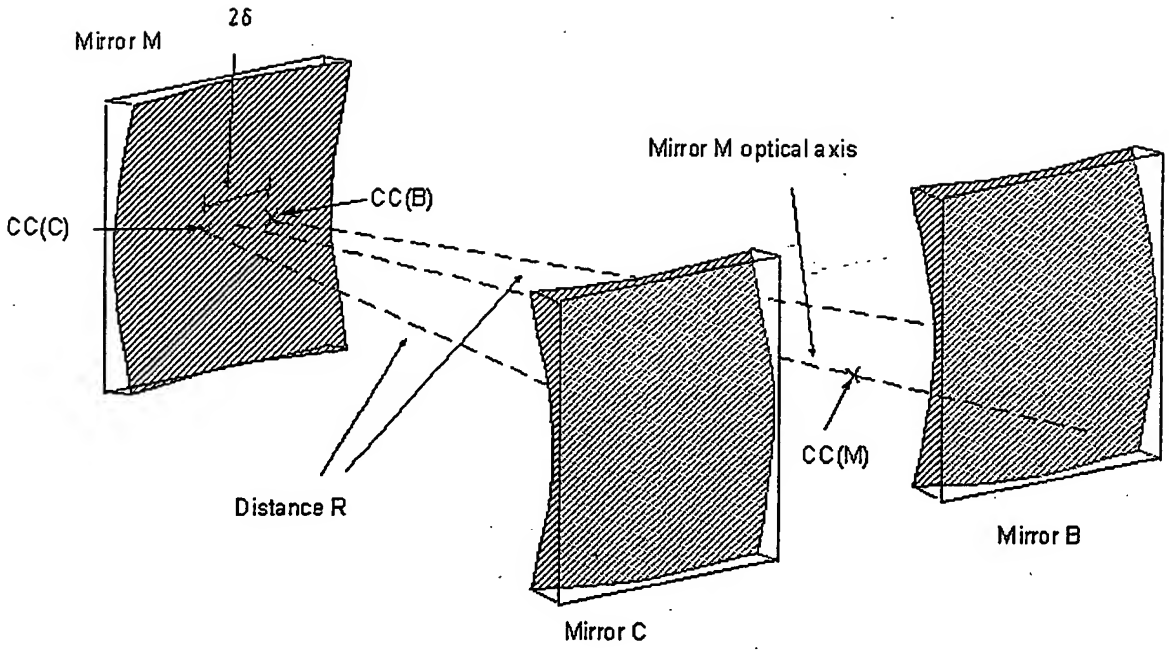
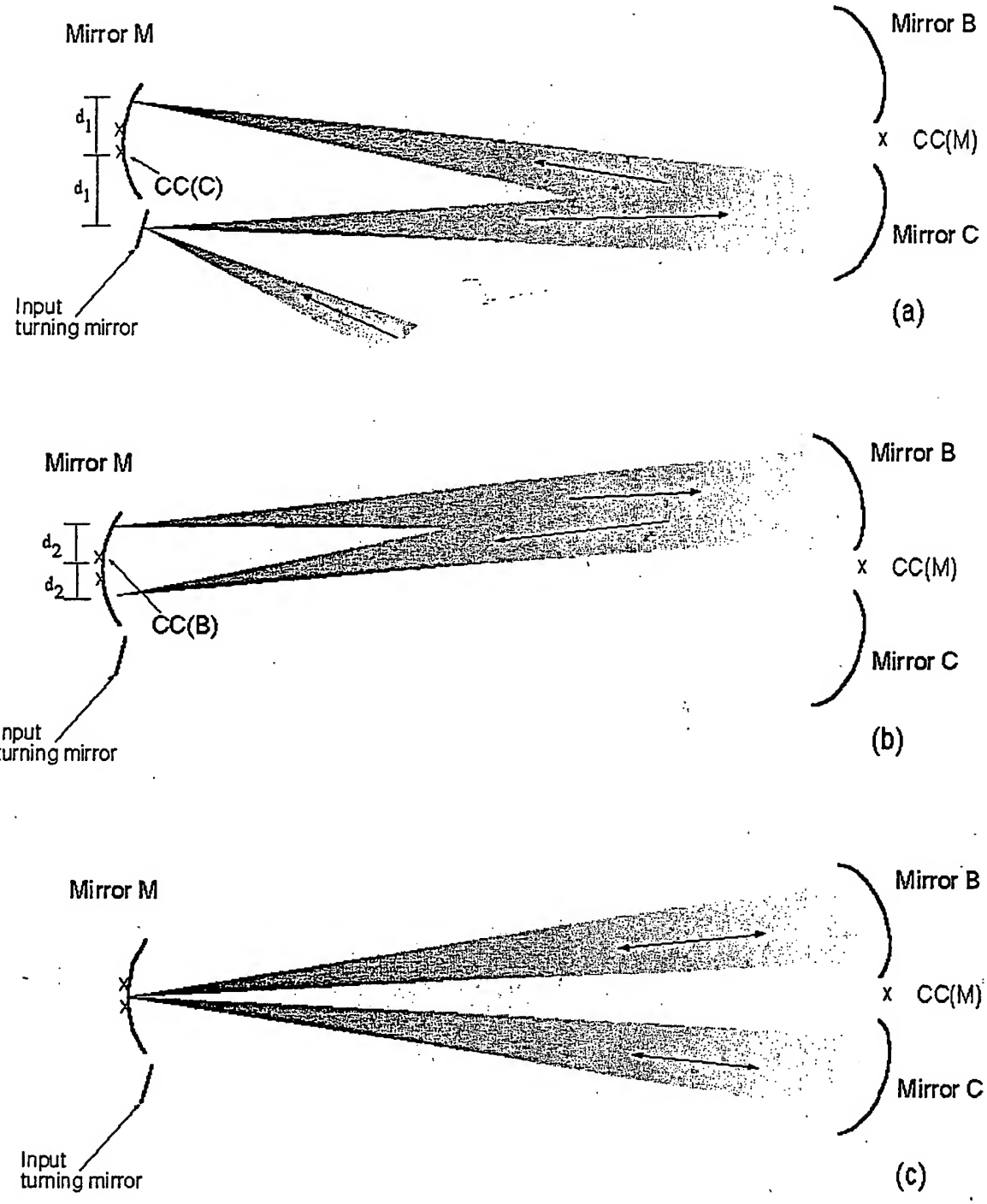
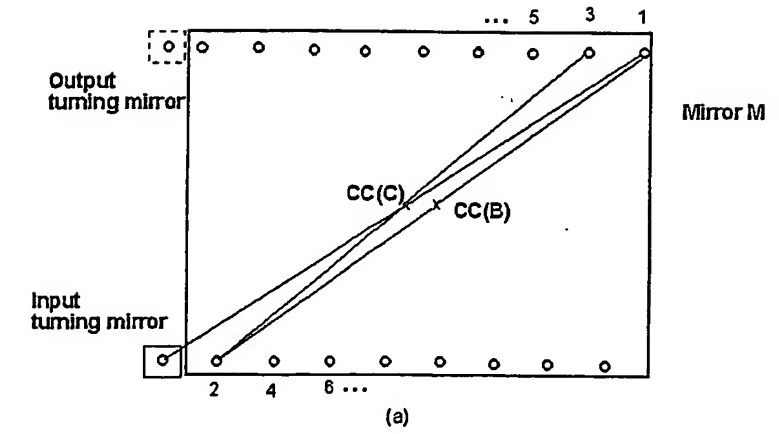

2δ
Mirror M
Mirror M optical axis
CC(B)
CC(C)
CC(M)
Distance R
Mirror B
Mirror C

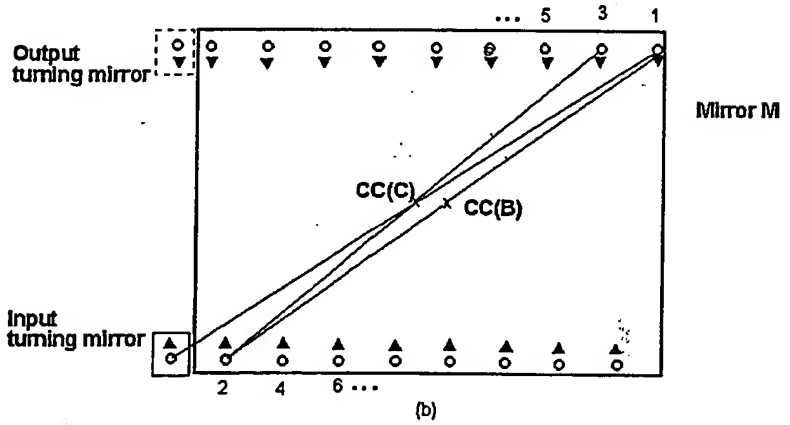
Figure 1



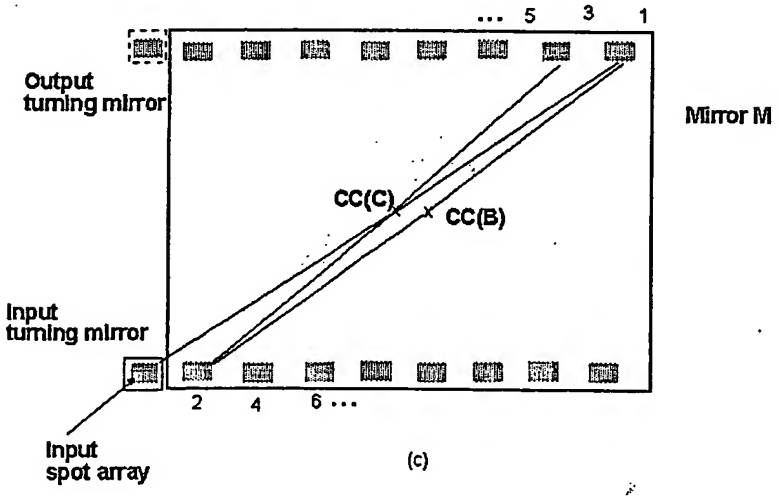
Figures 2a-2c



(a)



(b)



(c)

Figures 3a-3c

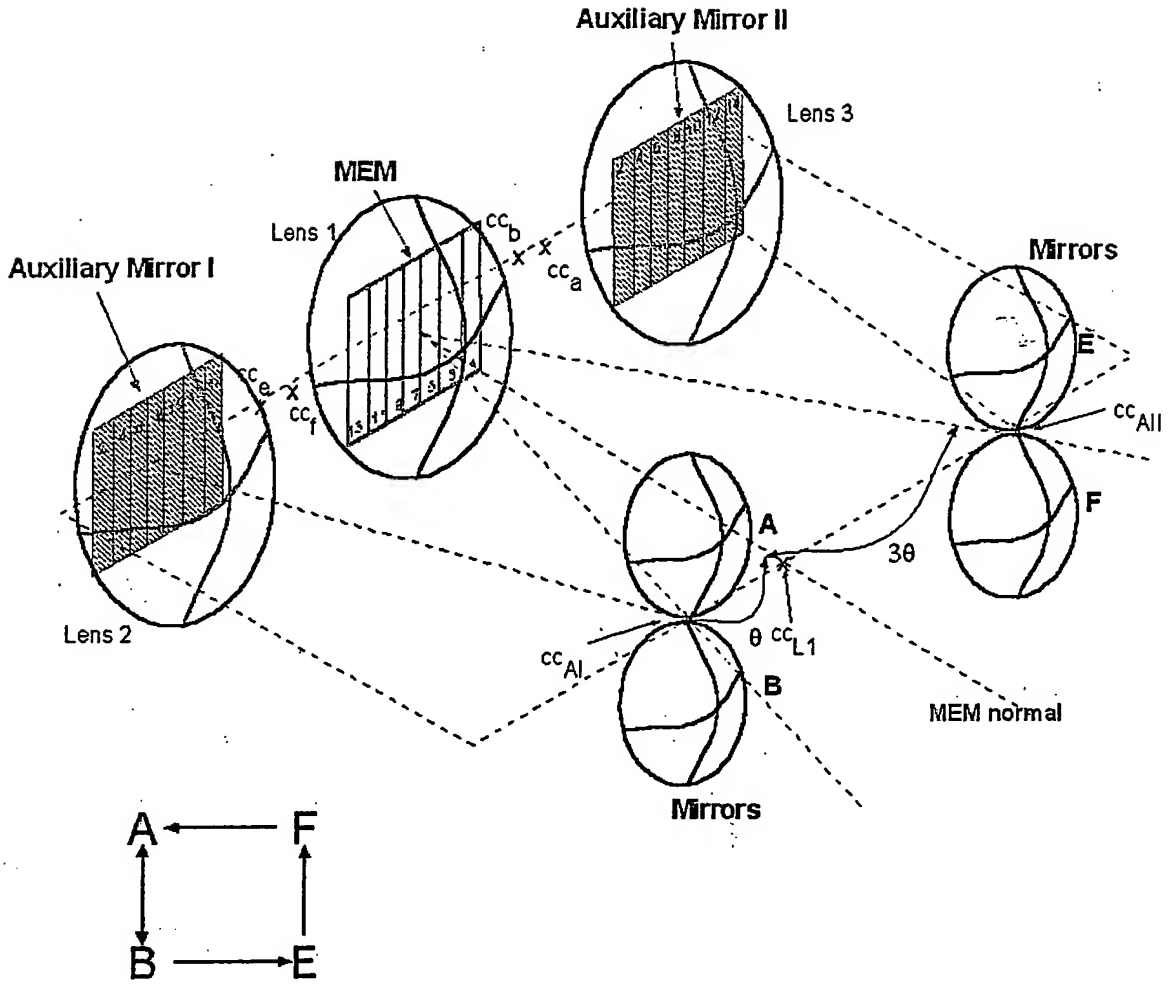

Auxiliary Mirror II
Lens 3
MEM
Lens 1
Auxiliary Mirror I
Mirrors
E
F
A
B
Lens 2
3θ
θ
MEM normal
Mirrors
A
F
B
E

Figure 4

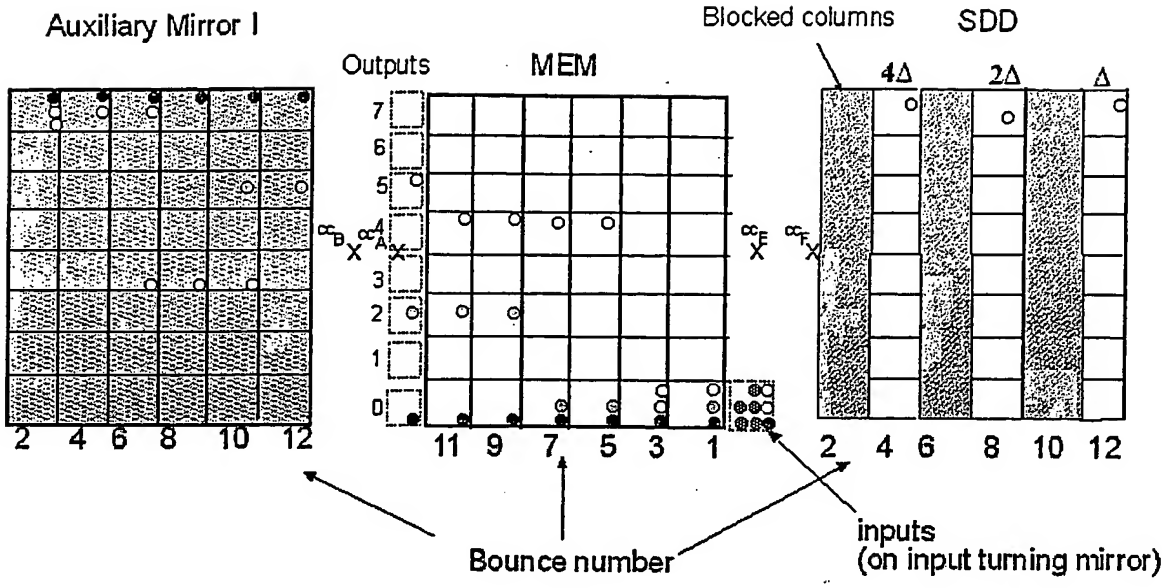


Figure 5

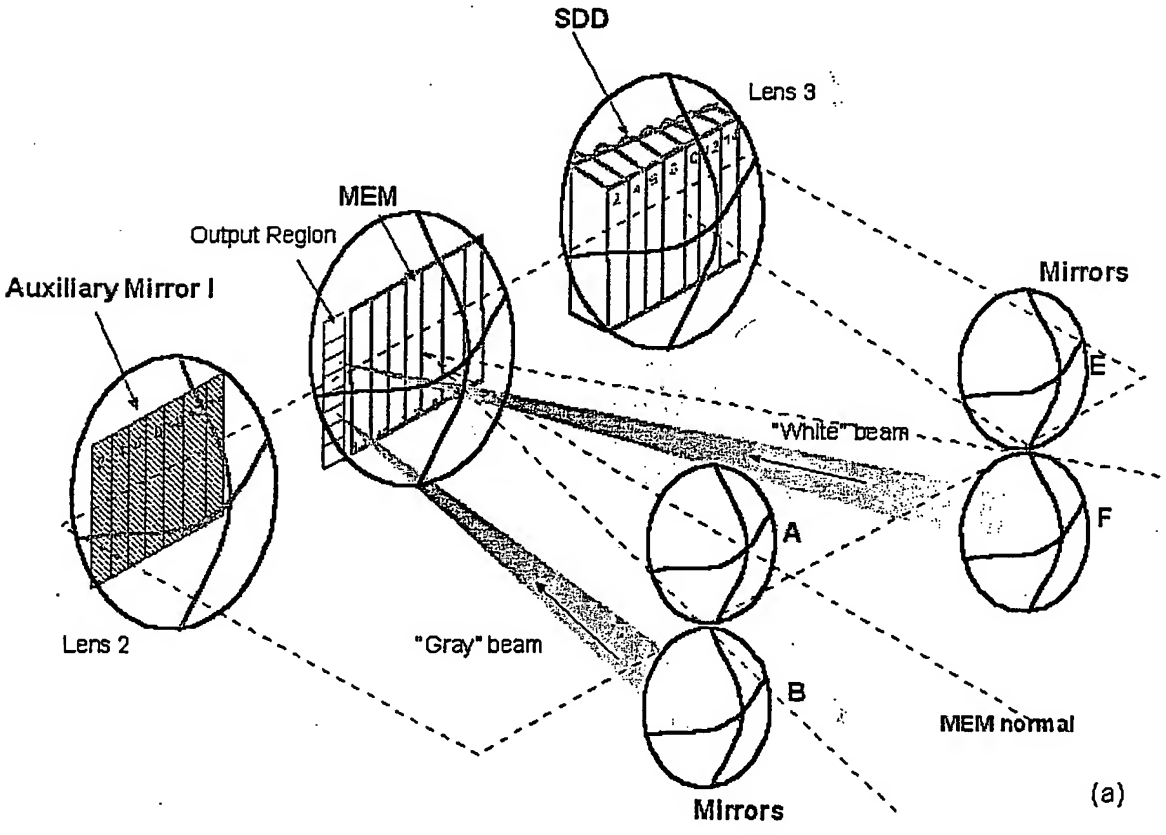


Figure 6a

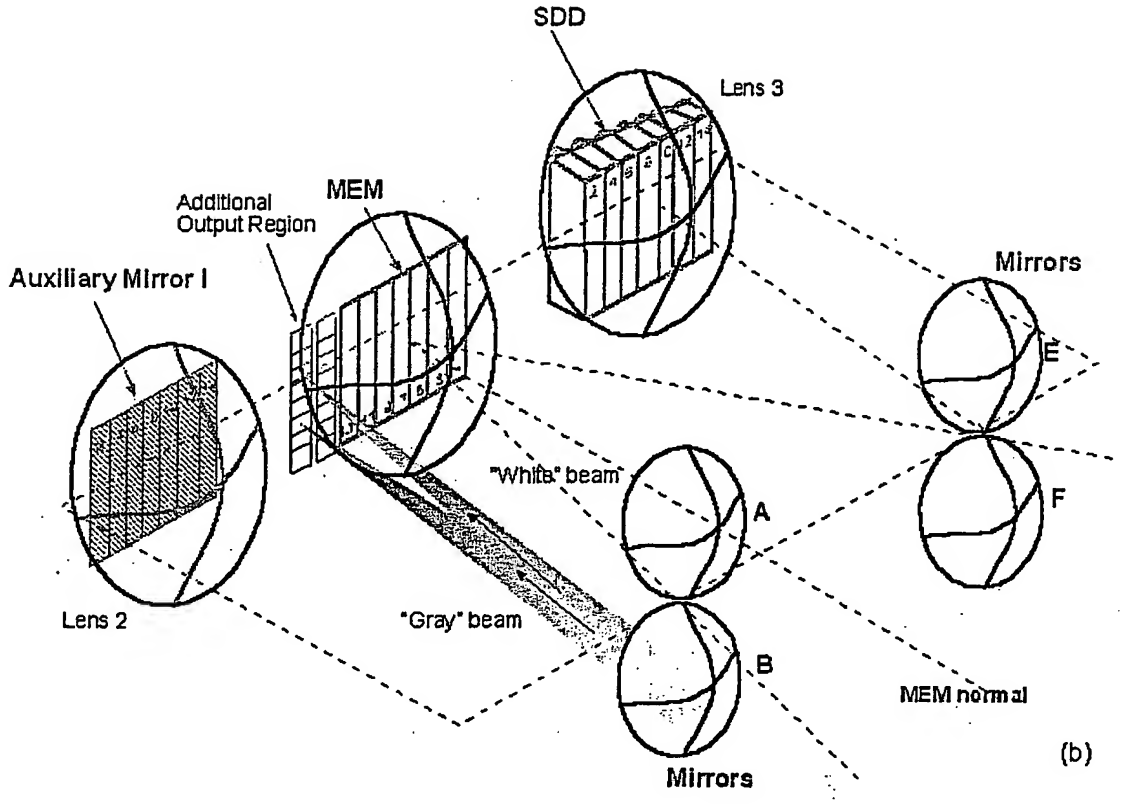


Figure 6b

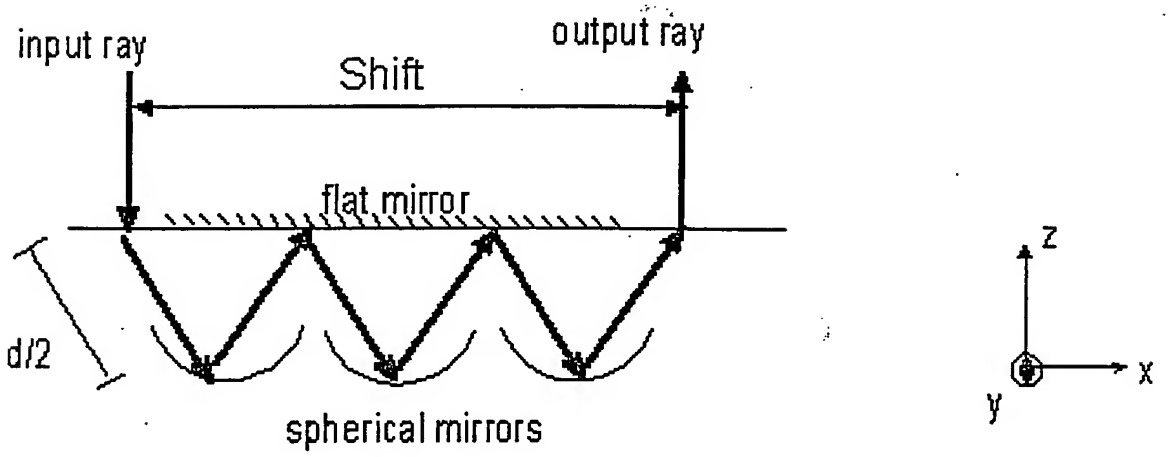


Figure 7

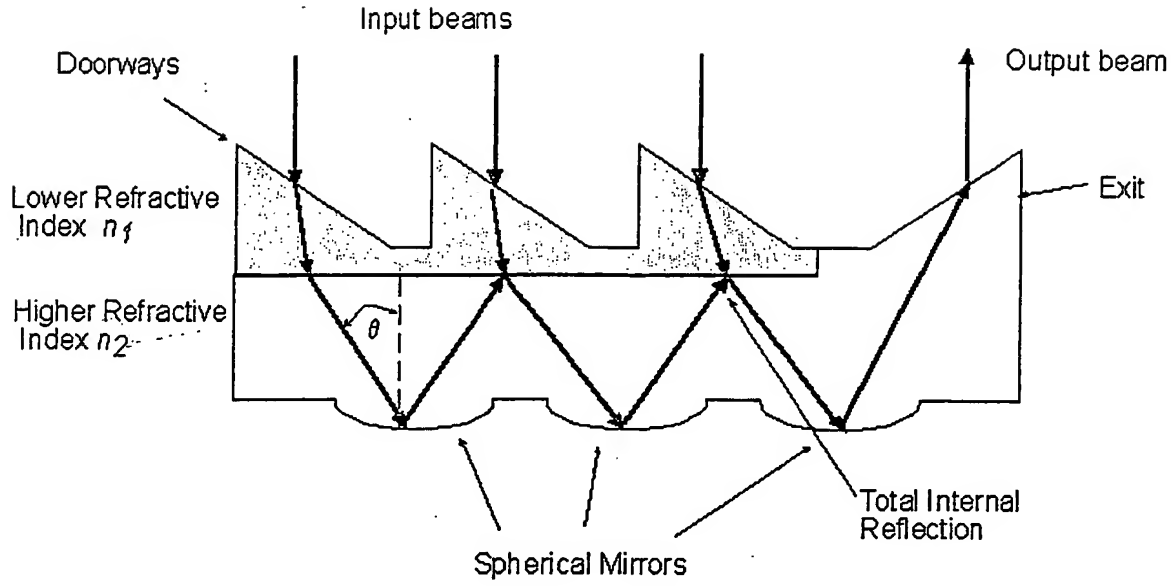


Figure 8

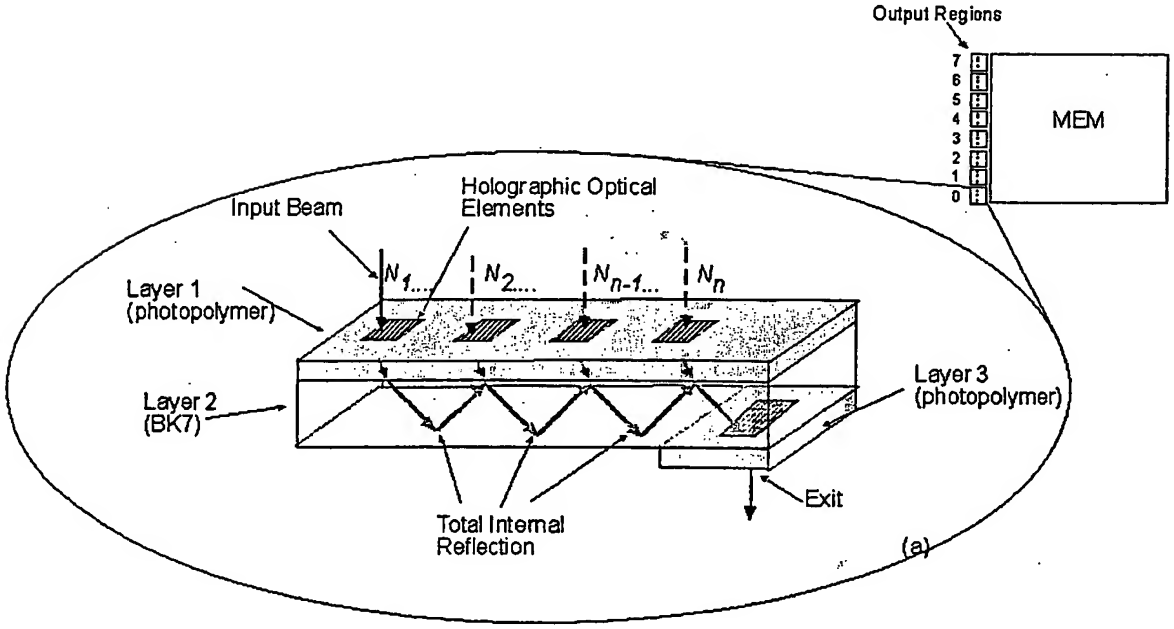


Figure 9a

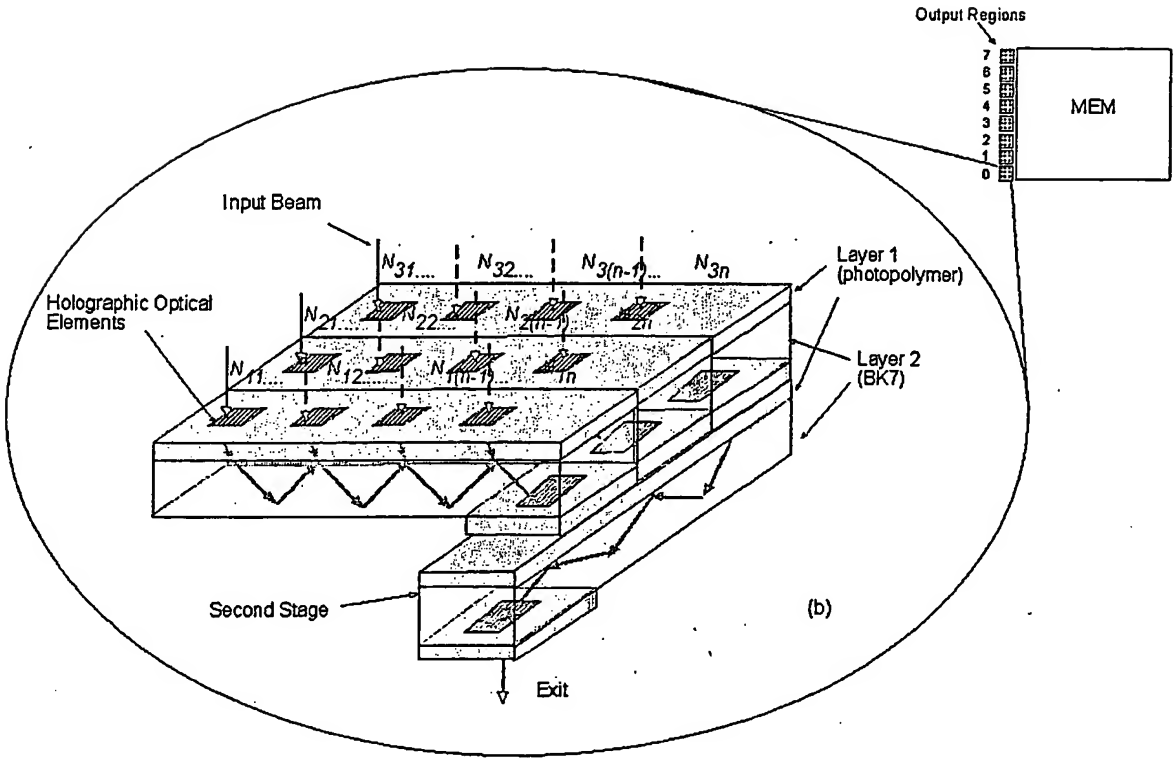

Output Regions
7
6
5
4
3
2
1
0
MEM
Input Beam
N_{31}....
N_{32}...
$N_{3(n-1)}$...
N_{3n}
Layer 1
(photopolymer)
Holographic Optical
Elements
N_{21}...
N_{22}...
$N_{2(n-1)}$...
$2n$
N_{11}...
N_{12}...
$N_{1(n-1)}$...
$1n$
Layer 2
(BK7)
Second Stage
(b)
Exit

Figure 9b